

Obsolescence Management of Commercial Technologies

22 April 1997

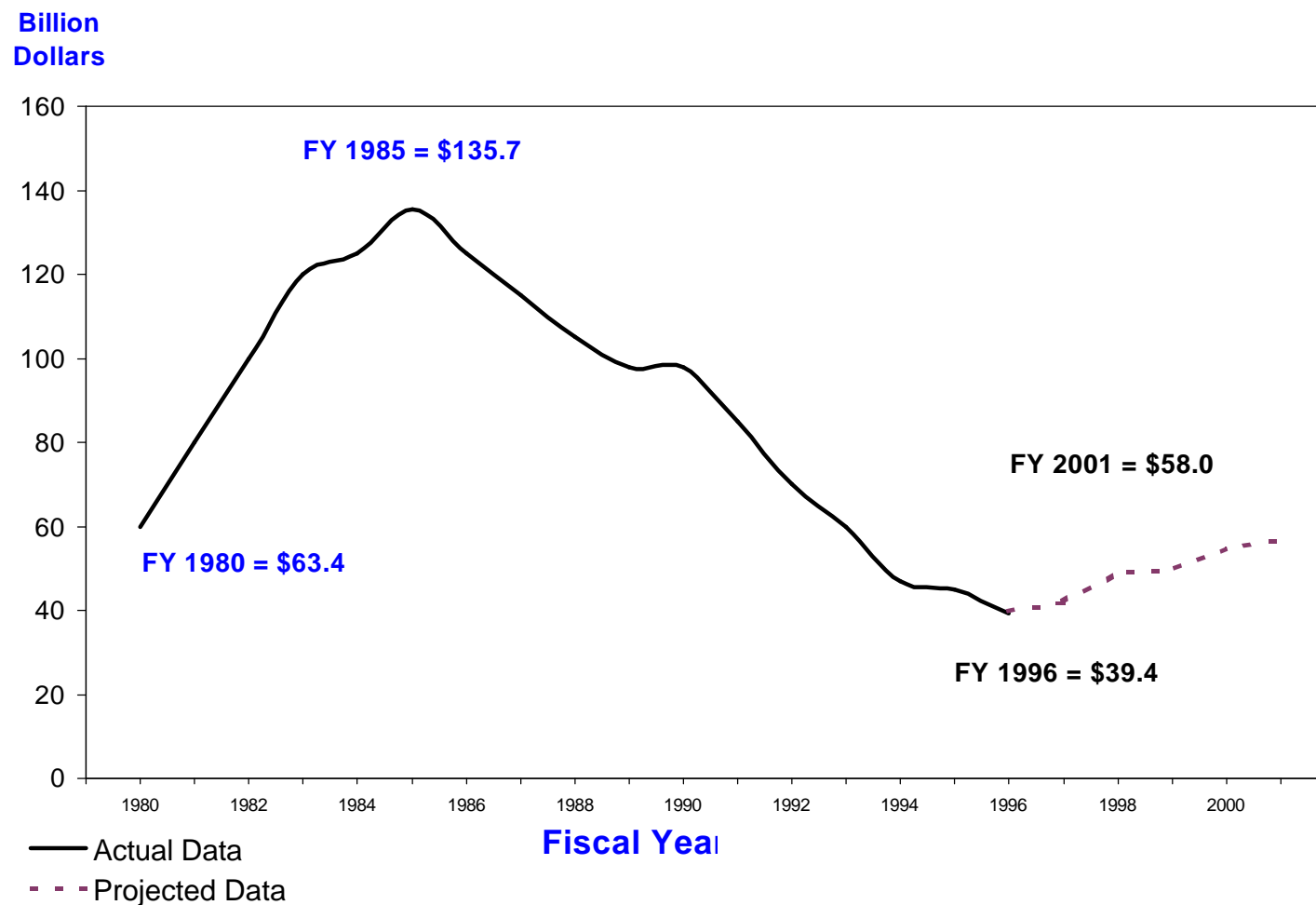
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OBJECTIVE

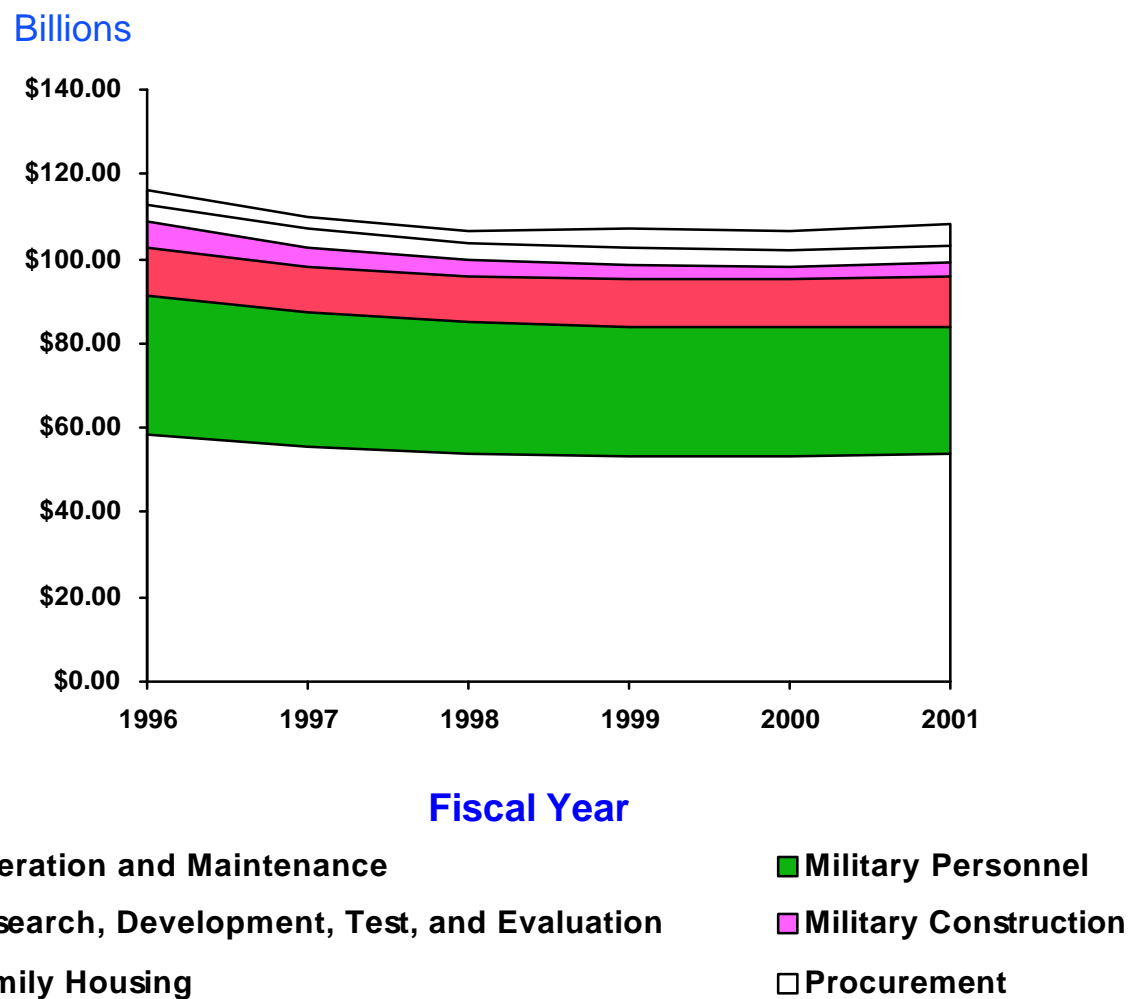
- Leverage off NSWC Crane existing expertise and tool sets to create a tightly coupled process and integrated tool set that accurately and efficiently performs technology assessments of build to print and commercial based (COTS) electronic systems to:
 - Identify near and long term life cycle support problems
 - Identify alternatives and options
 - Target viable solutions
 - Perform cost analysis of targeted solutions
- AND**
- **Outputs** system cost /schedules and support strategy to assist in program planning and budgeting process throughout the life of the system

DOD Procurement Budget

1980 to 2001 (of Constant 1996 Dollars)



Direct Infrastructure Funding by Appropriation (FY 1996-2001)

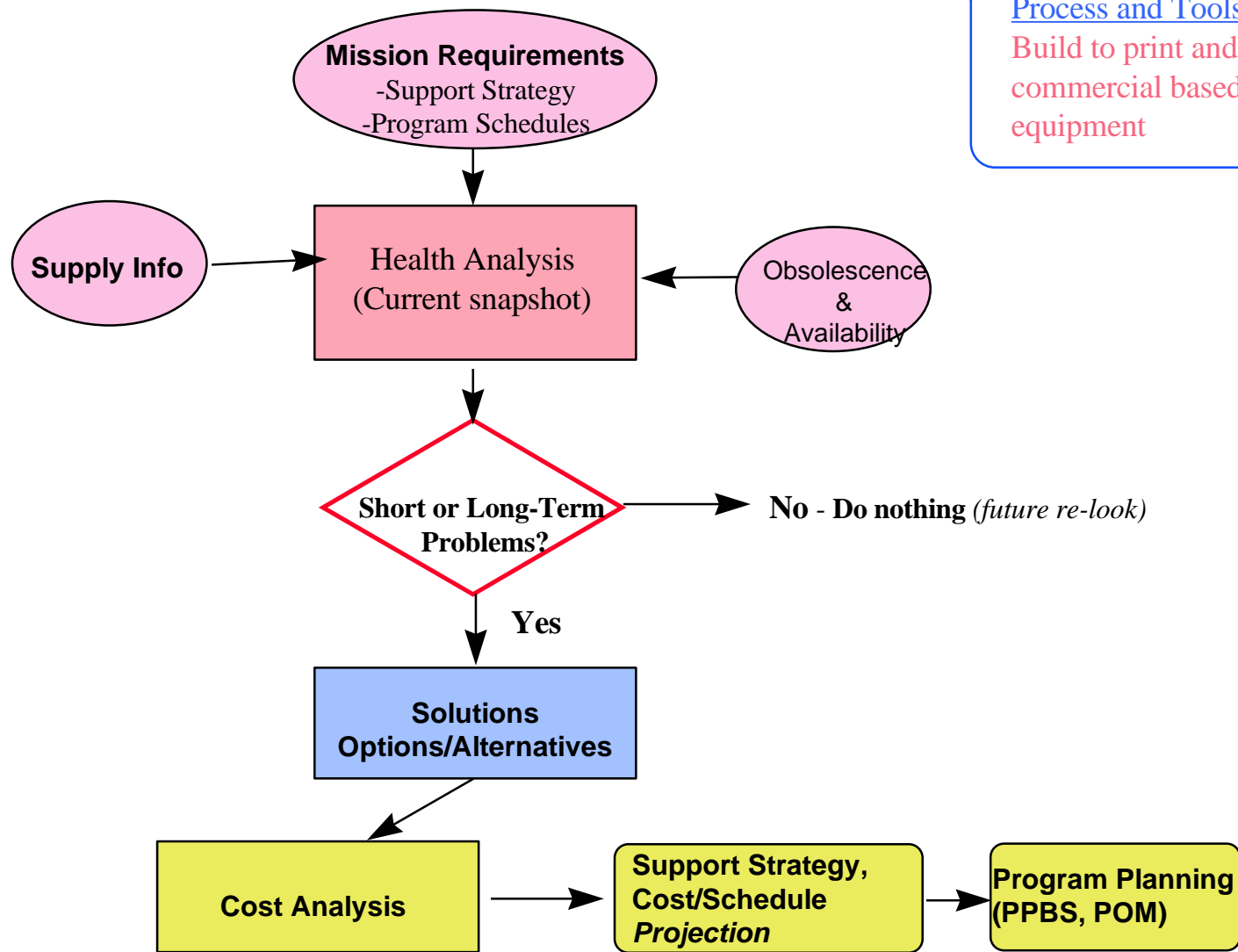


Process Overview

Process and Tools for:
Build to print and
commercial based
equipment

Problem ID

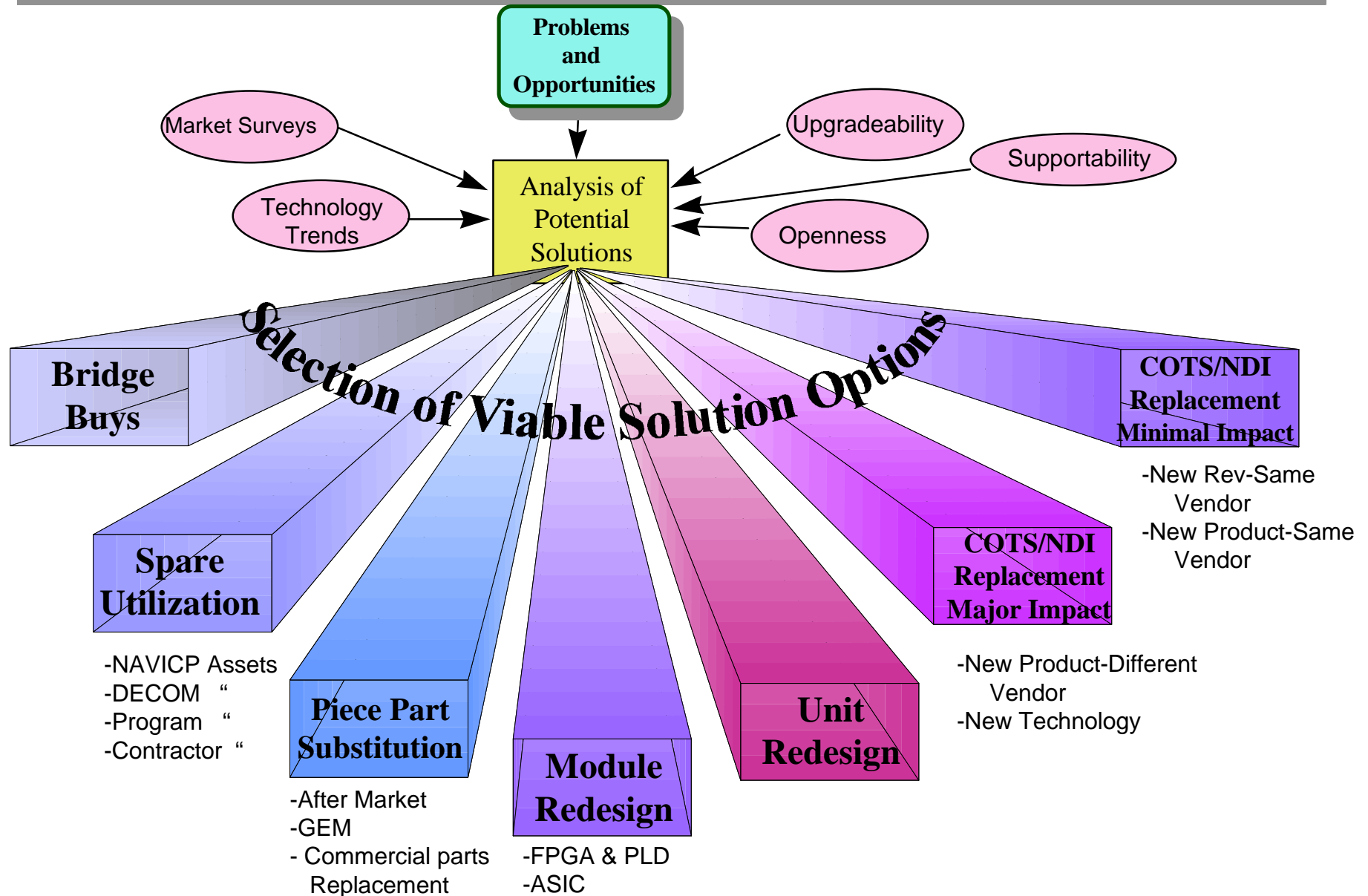
- When
- What
- Where

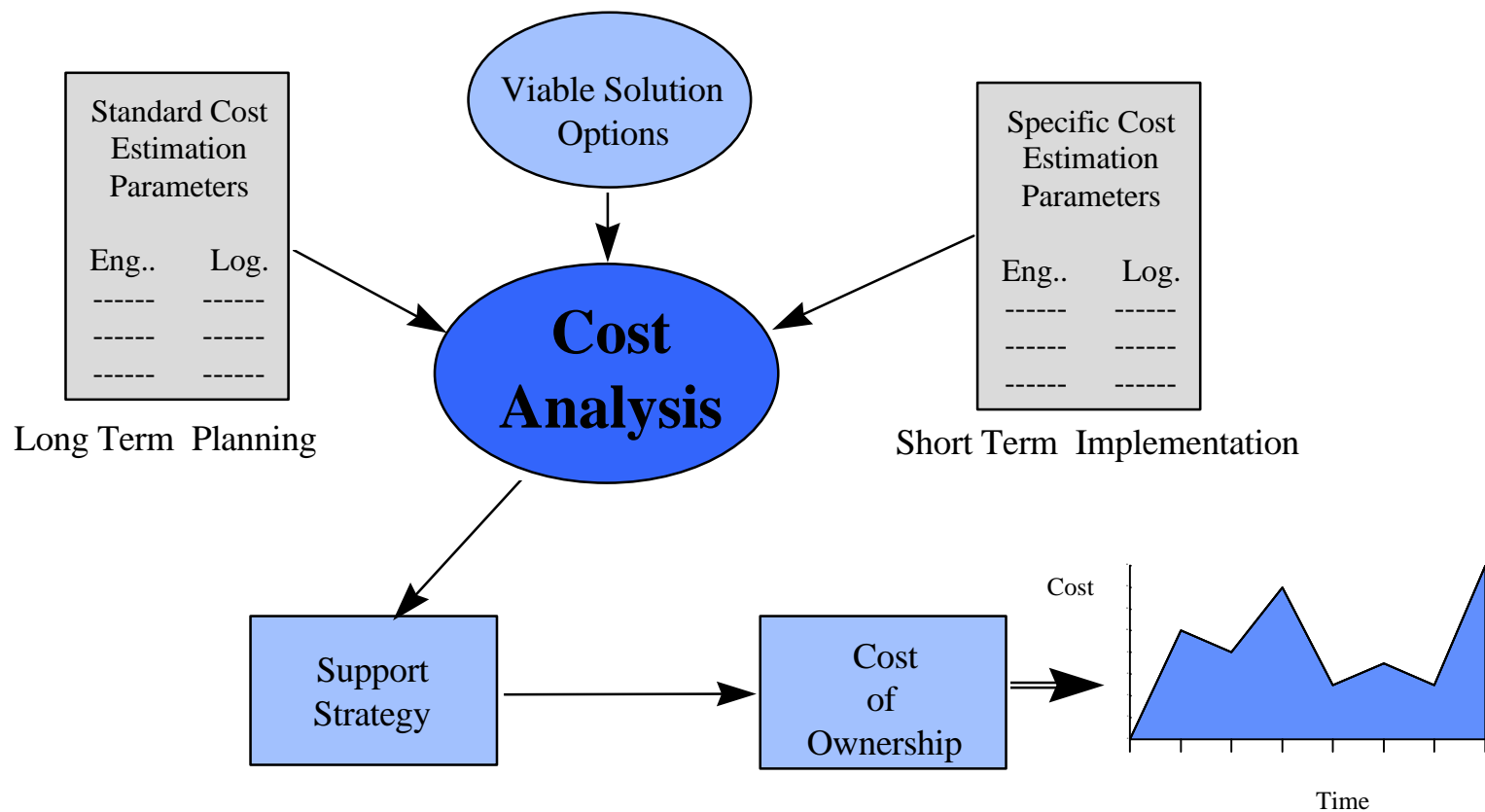


Solutions

Costs

Solution Alternatives/Options

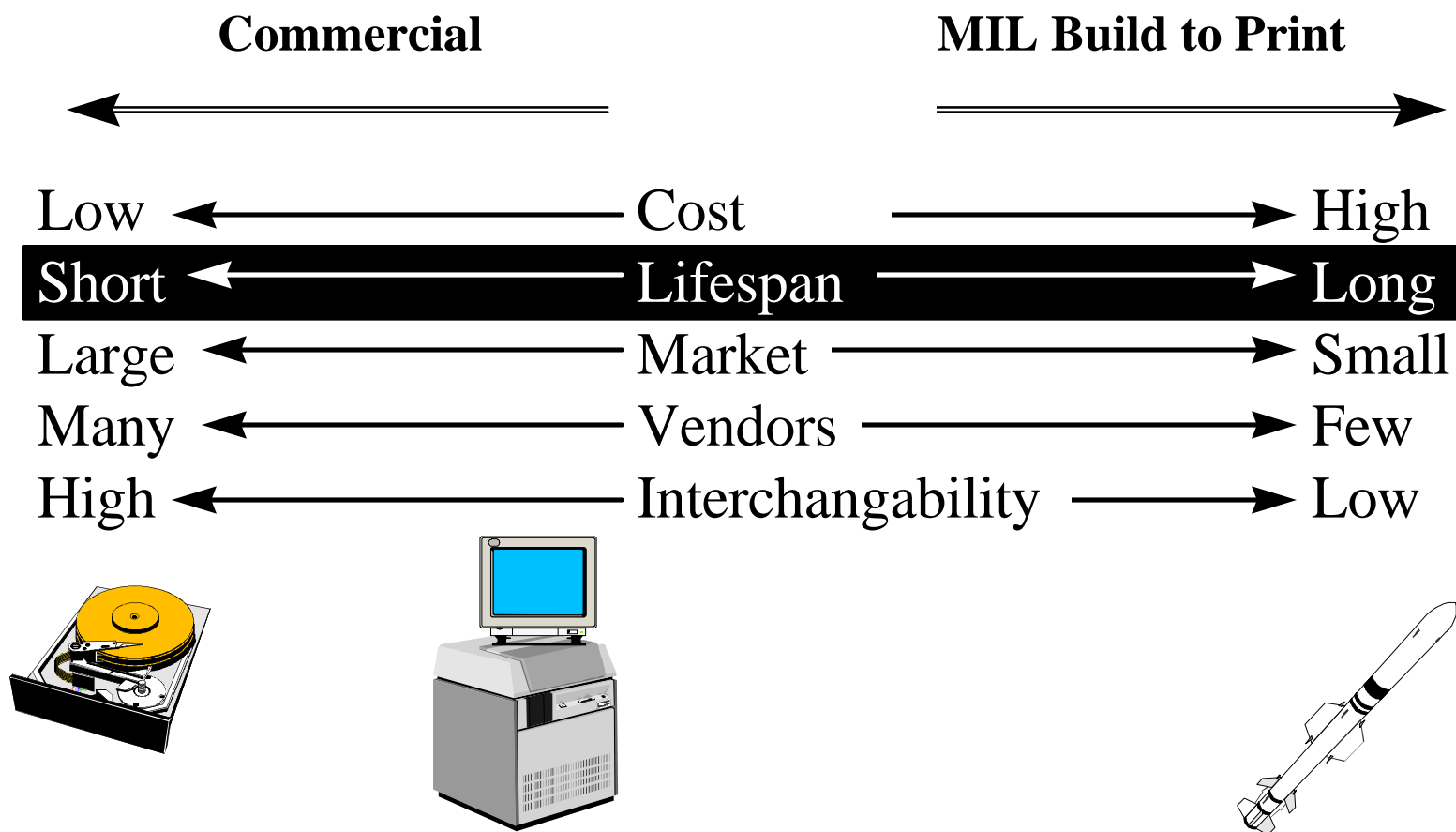




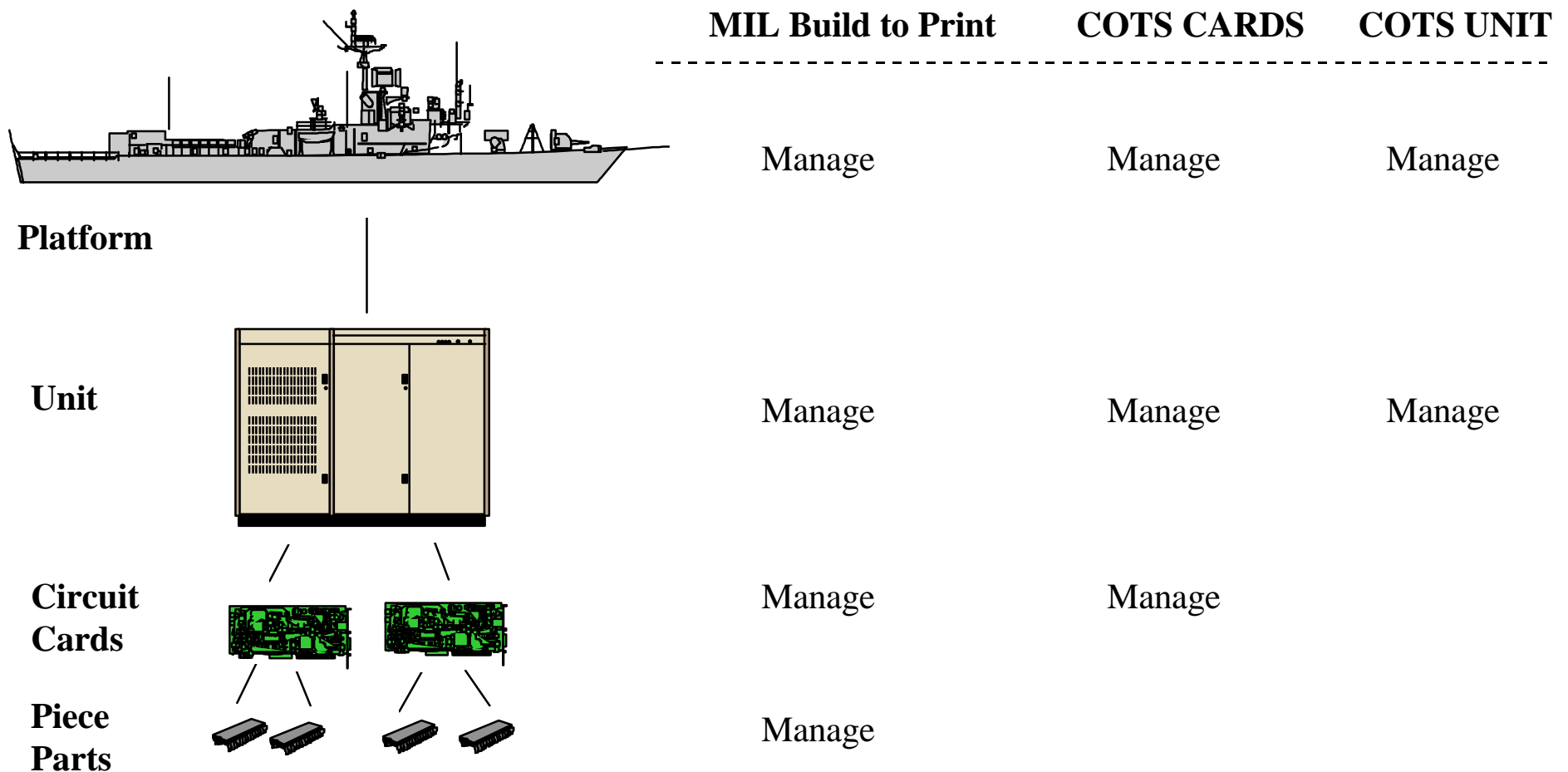
Acquisition Reform and DMS

- Result of Acquisition Reform is an ever increasing use of Commercial Off The Shelf (COTS) products
- Obsolescence is a greater issue with COTS
 - Commercial markets drive the life of COTS Products
 - “Most COTS vendors plan product upgrades every 12 to 18 months” *Source: COTS Platform Compatibility Study, NAVSEA*
 - “To be successful we must obsolete our products” - Bill Gates
- Successful obsolescence management will require an integration of approaches, tools, and processes for both legacy build to print and commercial products and technology

Differences Between COTS and Mil Build to Print



DMS Management Levels



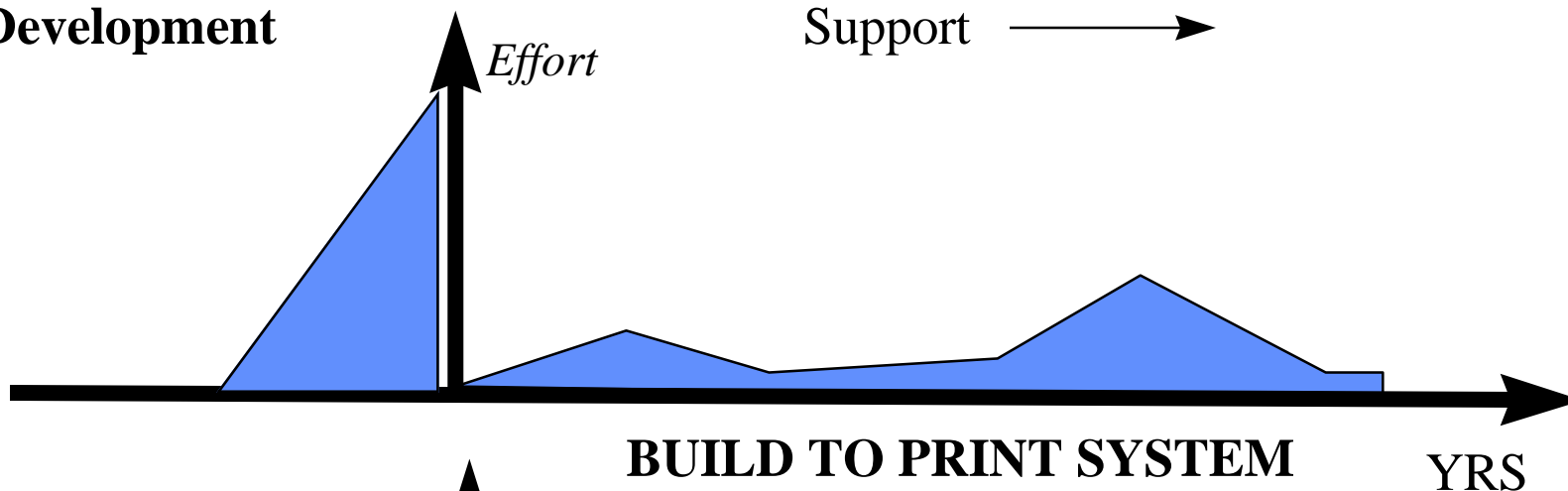
COTS obsolescence management uses the same skill set, but requires a modified knowledge base due to higher levels of integration

Nominal Comparison of Build to Print and COTS Based System

Development

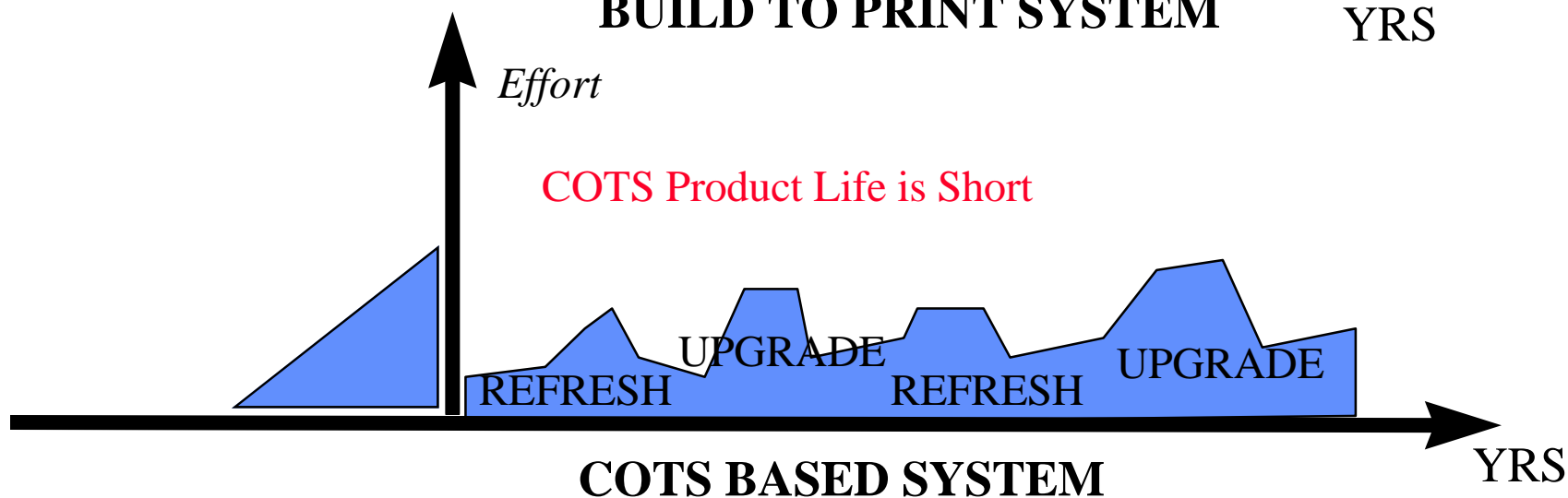
Support →

Effort

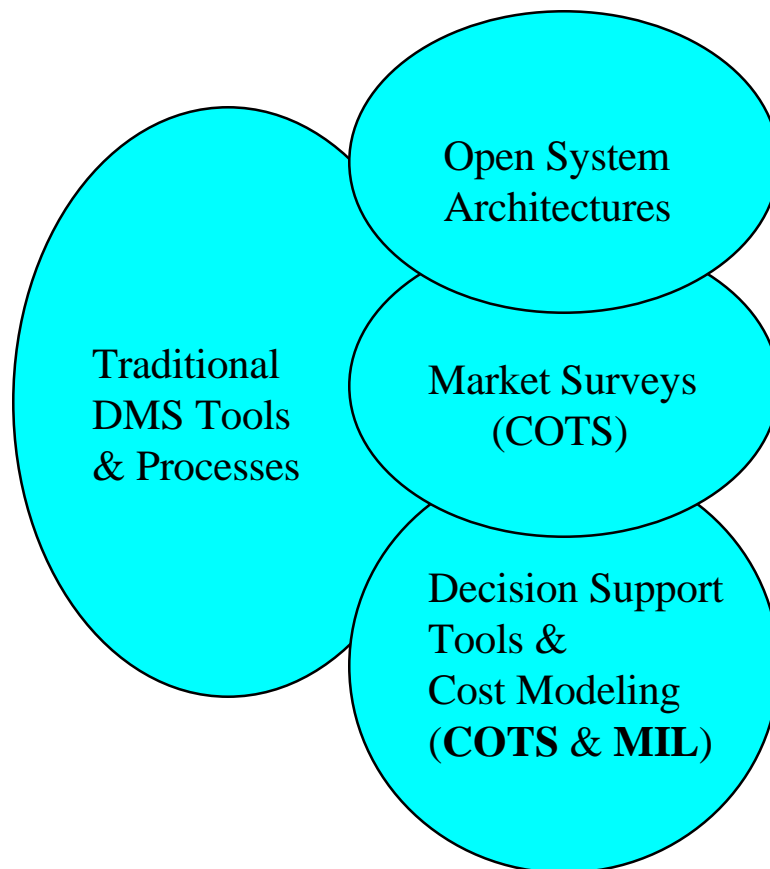


Effort

COTS Product Life is Short



**Military
Build to
Print**



Structured Approach for Inserting
New COTS Products and Technology

What's Suitable & Available?
From Whom?
For How Long?

What to Replace
When to Replace
How to Replace
Optimize Cost Avoidance

Integration of traditional obsolescence methods with those needed to manage COTS products

Summary

- DOD Budgets Have Decreased and Funding has Shifted From Procurement to Operation and Maintenance Accounts
- Services Looking for Processes to Remodernize Fielded Systems
- Newly Acquired Equipment Will Be Primarily COTS/NDI
- Surface Warfare Center Proactively Incorporating Legacy System Management “Lessons Learned” into COTS Management
- Crane Division Utilizing “Single Process” for Both Commercial And Military Systems
- Output Provides Decision Support Data for Program Manager to:
 - Determine Today’s System Support Cost & Drivers
 - Reprogram Budget as Required for Future System Support
 - Compare Military Versus Commercial System Cost and Schedules